




Next This:

Dr 4860

Hy 4881

Dr. 4860 - 4907

Japanese Expedition,  
1906.



Book No. 4

No. *414160*Date *31 July 06*Machine. *Lucas*Reel. *Lucas*

Turns —

Cor. +

Depth *122*Shot or lead *35#*and *Sigsbee* CupBottom *gy. m.*Bottom temperature *34.2*No. of thermometer *98244*

Cor.

Corrected temperature *34.1°*Air *81*

Surface

Drift —

Trawl or dredge *13 ft Sanner*

## SOUNDING WIRE.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

*9.59 00**02 50*

0

*10.05.50**38 05**10 00 10**01 50*

100

*09.00**34 35**00 30 10, 07.30*

200

*13 15**10.30 30*

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Shot did not  
detach**Towed 17 m**Net tow*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>13.8</i>
		2600	<i>Weather</i>	<i>BCM.</i>
		2700	<i>Wind</i>	<i>NE 2-3</i>
		2800	<i>Sea</i>	<i>2</i>
		2900	<i>Bar</i>	<i>29.69</i>
		3000	<i>Thy Alt</i>	<i>78</i>
		3100	<i>Cours</i>	<i>E</i>
		3200	<i>Chart</i>	<i>N.O. 1302</i>
		3300	<i>Lat</i>	<i>36° 18' N.</i>
		3400	<i>Long</i>	<i>119° 44' E.</i>
		3500	<i>Beacon</i>	<i>C. Clonard</i>
		3600	<i>S. 73° W. (th) 13 mi.</i>	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

*DeLong*  
 No. *4861* Date *31 July 06*  
*Lucas* Machine. Reel. *Lucas*  
 Turns Cor. + Depth *163 fath*  
 Shot or lead *35 lb Dipnet Cup*  
 Bottom *gn. M.*  
 Bottom temperature *33.5*  
 No. of thermometer *9824* Cor. *-1°*  
 Corrected temperature *33.4*  
 Air *78°* Surface *79°* Drift  
 Trawl or dredge *9 ft Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>P.M.</i>			<i>P.M.</i>	
<i>1-02-30</i>	<i>1-06-45</i>	0	<i>1-10-00</i>	<i>1-50-40</i>
<i>03-40</i>	<i>05-30</i>	100	<i>13-05</i>	<i>47-25</i>
<i>1-04-25</i>	<i>1-05-10</i>	<i>163</i>	<i>16-00</i>	<i>43-40</i>
		<del>200</del>		
		300	<i>1-19-50</i>	<i>1-40-00</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P. L.</i>	
		2600	<i>Weather</i>	<i>beam 9</i>
		2700	<i>Wind</i>	<i>N.E.</i>
		2800	<i>Sea</i>	<i>S.</i>
		2900	<i>Bar</i>	<i>29.66</i>
		3000	<i>Throat</i>	<i>81.6°</i>
		3100	<i>Compass</i>	<i>East.</i>
		3200	<i>Chart</i>	<i>H.O. 1302</i>
		3300	<i>Lat</i>	<i>36° 19' N.</i>
		3400	<i>Long</i>	<i>129° 47' E.</i>
		3500	<i>Beating</i>	<i>- C.</i>
		3600	<i>Chrono</i>	<i>S. 24° W.</i>
		3700	<i>(tr.) Dist.</i>	<i>16.5 min.</i>
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

De Long

No. D. 4862

Date

July 31, 1906.

Lucas

Machine.

Reel.

Lucas

Turns

Cor. +

Depth 184 fath.

Shot or lead 35-lb. &amp; Liggett Cup.

Bottom gn. M.

Bottom temperature 33°

No. of thermometer 98244

Cor. -1°

Corrected temperature 32.9

Air 85°

Surface

79°

Drift

Trawl or dredge 9' Agassiz

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. P.M.	UP.		DOWN. P.M.	UP.
2-15-50	2-21-05	0	2-25-30	3-05-40
16-50	20-00	100	28-30	3-02-25
2-17-50	2-18-50	184	31-20	3-59-00
		<del>200</del>	2-34-40	2-54-45
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>89.8</i>
		2600	<i>Weather</i>	<i>Sea 9</i>
		2700	<i>Wind</i>	<i>N.E. 2</i>
		2800	<i>Sea</i>	<i>S.</i>
		2900	<i>Bar.</i>	<i>29.64</i>
		3000	<i>Ther. Att.</i>	<i>79.0°</i>
		3100	<i>Course</i>	<i>East</i>
		3200	<i>Chart</i>	<i>H.O. 1302</i>
		3300	<i>Lat.</i>	<i>36° 20' N.</i>
		3400	<i>Long.</i>	<i>129° 50' E.</i>
		3500	<i>Bearings: - C. Clonard</i>	
		3600	<i>S. 34° E. (tr) dist 18 mi</i>	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D 4863*Date *July 31, 1906.**Lucas*

Machine.

Reel.

*Lucas*

Turns

Cor. +

Depth *250 fath.*

Shot or lead

*35 lb. & Liggett cap*

Bottom

*gr. M.*Bottom temperature *32.8*No. of thermometer *98244*Cor. *-1°*Corrected temperature *32.7*Air *85°*

Surface

*79°*

Drift

Trawl or dredge

*9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-31-40</i>	<i>3-36-50</i>	0	<i>3-40-30</i>	<i>4.27.00</i>
<i>32-45</i>	<i>36-00</i>	100	<i>43-30</i>	<i>23.40</i>
<i>33-40</i>	<i>35-15</i>	200	<i>46-30</i>	<i>20.30</i>
<i>3-34-10</i>	<i>3-34-50</i>	<i>250</i> <del>300</del>	<i>49-40</i>	<i>17.00</i>
		400	<i>3.53.15</i>	<i>4.15.15</i>
		500		
		600	<i>= 20 min.</i>	
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

# SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
10	70.7	108154		70.7
25	66.0	108135		66.8
50	55.6	104914	-0.2	55.3
100	38.1	109213	-0.2	37.9
200	33.0	98244	-0.1	32.9
300				
400	Water Cup at end of cable.			
500				
600				
700				
800				
900				
1000				

11-1023

# REMARKS:

Commenced 4:38:00  
Down 4:45:00 }  
Hove in 4:50:00 }  
Up at 4:56:00

No. 11

Date 31

Machine.

Reel. 1

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 77

Surface 79

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	gut 2 1/2	
		100	8.02.00	8.12.40
		200		
		300		
		400	Sowed 20 m	
		500		
		600		
		700		
		800		
		900	lower part boom	
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

# SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 71865

Date

Machine.

Reel. 3

Turns

Cor. +

Depth 4

Shot or lead 60 lb

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 78

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		—
		2600	<i>Lead</i>	<i>07m</i>
		2700	<i>Lead</i>	<i>E.</i>
		2800		
		2900		
		3000		
		3100		
		3200	<i>Lead</i>	<i>150.</i>
		3300	<i>Lat.</i>	<i>36° 32' N</i>
		3400	<i>Long.</i>	<i>129° 34' E</i>
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 19,4866 Date. Dec. 1

Machine. Reel.

Turns. Cor.+ Depth Est. 4

Shot or lead

Bottom

Bottom temperature

No. of thermometer 22 Cor.

Corrected temperature

Air 79° Surface 79° Drift

Trawl or dredge 9' Agass

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. ( )	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200	<i>Line</i>	
		3300	<i>Chart</i>	
		3400	<i>Line</i>	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

*No.**Date**Machine.**Reel.**Turns**Cor. +**Depth**Shot or lead**Bottom**Bottom temperature**No. of thermometer**Cor.**Corrected temperature**Air*

79'

*Surface**Drift**Trawl or dredge*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200	<i>Lat.</i>	<i>36° 32' N</i>
		3300	<i>Long.</i>	<i>129° 58' 30" E</i>
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4867*. Date *1 Aug.*Machine. Reel. *Lucas*Turns Cor. + Depth *150 fms.*Shot or lead *35 lb n Sigbee, Sdg. Cup*Bottom *gn. M. fm. gy. S.*Bottom temperature *33.5°*No. of thermometer *98244*. Cor. *- 0.1*Corrected temperature *33.4°*Air *80°* Surface *78* DriftTrawl or dredge *9' Lucas*

## SOUNDING WIRE.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

*1:00:00* *1:03:45*

0

*1:10:15* *1:12:00**00:50* *02:45*

100

*1:20* *1:30**1:01:20* *1:02:10**100* 200*1:40* *1:50*

300

*1:55:10* *1:59:10*

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	15. L.	7.8
		2600	Weather	od. 10
		2700	Wind	Variable. 1-0
		2800	Sea	S.
		2900	Bar.	29.52
		3000	Ther. contd.	80°
		3100	Cholē	N.O. 1302.
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 1. 4868. Date 1 Aug. 1906.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sdg.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 78° Surface 78° DriftTrawl or dredge 9' Agassiz.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<u>1:00:00</u>	<u>2:20:00</u>
		100	<u>56.15</u>	<u>1:00:00</u>
		200	<u>52.15</u>	<u>1:00:00</u>
		300	<u>50:00</u>	<u>1:20:00</u>
		400		
		500	<u>50:00</u>	<u>1:20:00</u>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Weather	gd 10.
		2600	Wind	East, 1-0.
		2700	Sea	S.
		2800	Bar.	29.49
		2900	Ther. <del>std.</del>	79°
		3000	Chart	H.O. 1302.
		3100	Course, P.S.C	NNE.
		3200	Lat. 36° 32' N	
		3300	Long. 129° 45' E	
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *1117* Date *Aug. 1900.**T. N.* Machine. Reel.Turns *96* Cor. + ~~*11*~~ = Depth *94*

Shot or lead

Bottom *gn. M. fm. gy. S.*

Bottom temperature

No. of thermometer ~~*98144*~~ Cor. - 0.

Corrected temperature

Air *79°* Surface *78°* DriftTrawl or dredge *12 Tanner*

## SOUNDING WIRE.

## DREDGE ROPE.

TURNS.

DOWN.

UP.

DOWN.

UP.

*2.15.55* *2.17.55**2.16.55* *2.16.55*

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		heavily (075.10)
		2700		Variable 1.
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400	Long 129	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4870* Date *1 Aug. 06*

Machine. Reel.

Turns. Cor.+ Depth *60*

Shot or lead

Bottom

Bottom temperature *54.2*No. of thermometer *1* Cor.

Corrected temperature

Air *79°* Surface *78°* DriftTrawl or dredge *12 fathoms*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP
		0		<i>18.00</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1024

REMARKS:

No. 114870 Date 1T. N. Machine. Reel. T NTurns . Cor. + Depth 60Shot or lead Shot lead 31Bottom no spec

Bottom temperature

No. of thermometer No. 11487 Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>1.21.10</u>	<u>✓31</u>	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D 481* Date */ /*

Machine. Reel.

Turns. Cor.+ Depth *60*

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *21* Surface *21* DriftTrawl or dredge *12 ft Lamm*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. <i>11/20</i>	UP.		DOWN. <i>11/20</i>	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-4023

REMARKS:

No. *D 4872* Date *August 2/06.*  
*T.N.* Machine. Reel. *T.N.*  
 Turns . Cor.+ Depth *66 fath*  
~~Shot or lead~~ *33-#*  
 Bottom *gn. M.*  
 Bottom temperature *60°*  
 No. of thermometer *98244* Cor. - *3°*  
 Corrected temperature *57.7°*  
 Air *80°* Surface *78°* Drift  
 Trawl or dredge *12' Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0.	<i>7- 45- 60</i>	<i>8- 26- 50</i>
		100.	<i>8- 01- 10</i>	<i>2- 2- 40</i>
		120.		
		200.	<i>8- 01- 30</i>	<i>8- 22- 0</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P. L.</i>	<i>5 1/2</i>
		2600	<i>Weather.</i>	
		2700	<i>Wind</i>	<i>3</i>
		2800	<i>Sea</i>	
		2900	<i>Bar.</i>	
		3000	<i>Ther. Att. 81</i>	
		3100	<i>Course</i>	
		3200	<i>Chart</i>	
		3300	<i>Lat. 34°</i>	
		3400	<i>Long.</i>	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

507 Long.  
De

No. *D 4873*

Date *Aug. 2, 1906*

Machine.

Reel.

Turns

Cor. +

Depth *Est. 16 fath.*

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *80°* Surface *78°* Drift

Trawl or dredge *12' Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>33-30</i>	
		100	<i>36-30 9.</i>	
		<i>150</i>		
		200	<i>38-30 8-38-1</i>	
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700	<i>W.L.</i>	
		2800	<i>L.</i>	
		2900	<i>Bar.</i>	
		3000	<i>Ther. Att. 82°</i>	
		3100	<i>Course</i>	
		3200	<i>Lat. 5.</i>	
		3300	<i>Long. 12.</i>	
		3400	<i>Chart 8.0.</i>	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4874* Date *Aug.*Machine. Reel. *T.V.*Turns Cor.+ Depth *66*Shot or lead *35 lb*Bottom *an. S.*Bottom temperature *75*No. of thermometer *500* Cor.

Corrected temperature

Air *80°* Surface *78°* DriftTrawl or dredge *9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No.  $\Delta$ . 4875. Date 2 Aug. 1906.

T. V. Machine. Reel.

Turns Cor.+ Depth 57 fms.

Shot or lead 35 lb & 5 lb. Cu. x)

Bottom fine S. bk. sh.

Bottom temperature

No. of thermometer none used. Cor.

Corrected temperature

Air 81° Surface 80° Drift

Trawl or dredge 9' Agassiz.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.00.55	1.02.00	0	1.02.00	1.02.00
1.01.00	1.01.55	100	00.55	31.25
		200	1.00.55	1.00.20
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

xx) Clearing up  
during haul to 625.

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1053

REMARKS:

No. *D. 4876*. Date *2 Nov. 1900**S. T. N.* Machine. Reel.Turns Cor.+ Depth *59 f*Shot or lead *35 lb. Sigsbee and*Bottom *fine S. bk. Cr.*Bottom temperature *62.40*No. of thermometer *9844*. Cor. *-0.3*Corrected temperature *62.10*Air *81°* Surface *81°* DriftTrawl or dredge *9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1.40.00</i>	<i>1.42.40</i>	0	<i>1.40.00</i>	<i>2.15.00</i>
<i>1.40.15</i>	<i>1.42.25</i>	100	<i>1.40.15</i>	<i>10.00</i>
		200	<i>1.40.30</i>	<i>2.08.10</i>
		300	<i>20 min.</i>	
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	xx	
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500	Oki Shima	
		3600		
		3700		
		3800		
		3900		
		4000		

xx becoming overcast  
 ...  
 ...

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *0.4877.* Date *2 Aug. 1906*

Machine. Reel.

Turns Cor.+ Depth *59*

Shot or lead

Bottom *No Sds.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *83°* Surface *81°* DriftTrawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		<i>Temp. 9.</i>
		2600		<i>SSW. 3.</i>
		2700		<i>S.</i>
		2800		<i>29.32</i>
		2900		<i>840</i>
		3000		<i>45. 1302</i>
		3100		<i>S 1/2 E.</i>
		3200		<i>70" 75</i>
		3300		
		3400		<i>S. 275</i>
		3500		<i>6.32</i>
		3600		
		3700		
		3800		
		3900		
		4000		

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4878*, Date *2 Aug. 1906*.

Machine. Reel.

Turns Cor.+ Depth *59*

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *81°* Surface *81°* DriftTrawl or dredge *4' dredge*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		<del>714</del>
		2600	Weather.	0 mpa. *
		2700	Wind	SSW. 2
		2800	Sea	S.
		2900	Bar.	20.22
		3000	Therm.	
		3100	Chart	511
		3200		
		3300		15 m 71
		3400	Long. 130° 14' 30" E	
		3500	OKi Shim	S 58.0
		3600		
		3700		
		3800		
		3900		
		4000		

*antine*  
*lant.*

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *2.4819*, Date *2 Aug. 1906*.

Machine. Reel.

Turns Cor.+ Depth *59\**

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *77°* Surface *81°* DriftTrawl or dredge *4' Higgins*.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

*No.* 712 *Date*  
*Machine.* *Reel.*  
*Turns* *Cor. +* *Depth* 59 f.  
*Shot or lead*  
*Bottom*  
*Bottom temperature*  
*No. of thermometer* / *Cor.*  
*Corrected temperature*  
*Air* ~ *Surface* 81 *Drift*  
*Trawl/or dredge*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

# SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 211 Date 2  
 T M Machine. Reel. 7  
 Turns — Cor.+ — Depth 440  
 Shot or lead 35  
 Bottom red. clay. sh. & s. m. s.  
 Bottom temperature  
 No. of thermometer Cor. 0.3  
 Corrected temperature 14.9  
 Air 77 Surface Drift  
 Trawl or dredge 9

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

*Lat 24° 15' N.*  
*Long 130° 16' E.*  
*1000 fms*  
*71 84' 1" (N)*  
*dir. 8.0 mi.*

# SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D 4882*

Date

*Aug. 2/06*

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *78°*Surface *80°*

Drift

Trawl or dredge

*No. 2 & 3**lowing*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>Out</i>	<i>In.</i>
		100	<i>8-00-20</i>	<i>8-20-30</i>
		200	<i>7-20-20 min</i>	
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>2500</i>	<i>2500</i>
		2600	<i>Weather omph.</i>	
		2700	<i>Wind</i>	
		2800	<i>...</i>	
		2900	<i>Bar.</i>	<i>29.39</i>
		3000	<i>Therm. 80°</i>	
		3100	<i>Sound</i>	<i>Sheet 34th.</i>
		3200	<i>Chart</i>	
		3300	<i>Lat. 32° 30' N.</i>	
		3400	<i>Long. 155° 05' W.</i>	
		3500		
		3600	<i>Bearing, Old Shima,</i>	
		3700	<i>N. 11° E (Tr) dist 20'</i>	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4883.* Date *8 Aug. 06.*

*T. N.* Machine. Reel. *T. N.*

Turns Cor.+ Depth *53 fms.*

Shot or lead *35-lb* & Sigs. Sigs. Cup. *2)*

Bottom *dk. gy. S. bk. Sh.*

Bottom temperature *62.1°*

No. of thermometer *108019.* Cor. *- 0.4*

Corrected temperature *61.7°*

Air *86°* Surface *83°* Drift

Trawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1.00.00</i>	<i>1.07.10</i>	0	<i>1.00.00</i>	<i>1.07.10</i>
<i>1.00.20</i>	<i>1.06.50</i>	100	<i>1.12.45</i>	<i>1.35.30</i>
		200		
<i>x) 1.00.40</i>	<i>1.06.30</i>	300	<i>1.12.45</i>	<i>1.35.30</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



No. *D. 4884.* Date *8 June, 1900.*

Machine. Reel.

Turns Cor.+ Depth *2200.*

Shot or lead

Bottom *No S.S.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *86°* Surface *82°* DriftTrawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>1:40.00</i>	<i>2:11.30</i>
		100	<i>1:45.00</i>	<i>2:06.00</i>
		200		
		300	<i>1:50.00</i>	
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Weather	
		2600	Wind	
		2700		
		2800		
		2900		
		3000		
		3100	Course	
		3200	Lat. 32°	
		3300	Long. 124° 30' E	
		3400	Magnetic Lat. N 76° E	
		3500	(true) dist 11.5 miles	
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *D. 4885.* Date *8 Aug. 1902.*  
 Machine. Reel.  
 Turns Cor.+ Depth *52-1*  
 Shot or lead  
 Bottom *no sd.*  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air *89°* Surface *83°* Drift  
 Trawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>2.25.00</i>	<i>2.40.45</i>
		100	<i>2.26.00</i>	<i>2.40.15</i>
		200		
		300	<i>2-0 min</i>	
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>Weather</i>	<i>be. G.</i>
		2600	<i>Wind</i>	<i>SE</i>
		2700	<i>Sea</i>	<i>S.</i>
		2800	<i>Bar.</i>	<i>29.68</i>
		2900	<i>Ther. at d.</i>	<i>84</i>
		3000	<i>Ther.</i>	<i>HO. 1943.</i>
		3100	<i>rose PSC</i>	<i>SW</i>
		3200	<i>Lat. 32° 31' 30" N</i>	
		3300	<i>Long. 129° 31' 15" E</i>	
		3400	<i>True 2.1. 77° E</i>	
		3500	<i>Mag. 2.1. 15</i>	
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4886.* Date *8 Aug.**T. N.* Machine. Reel.Turns Cor.+ Depth *53 fms.*Shot or lead *35 lb. & Sigeb. Sdg. Cap.*Bottom *dk. gy. S. brn. Sh.*Bottom temperature *62.8°*No. of thermometer *108019.* Cor. *- 0.4*Corrected temperature *62.4°*Air *87°* Surface *83* DriftTrawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.22.30</i>	<i>7.22.30</i>	0	<i>3.07.30</i>	<i>3.22.30</i>
<i>7.23.00</i>	<i>7.23.00</i>	100	<i>3.09.00</i>	<i>3.24.10</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Wind	SW. 2
		2700	Sea	S.
		2800		
		2900	Ther. std.	'84
		3000	Chart	H.O. 1943.
		3100		
		3200	Lat, 32° 30' 30" N.	
		3300	Long, 129° 29' 45" E.	
		3400		
		3500		
		3600	71.70° E.	- 12.70° W.
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4887.* Date *8 Aug. 1906,*T *N* Machine. Reel. T *N*Turns *71* Cor. + Depth *71 fms.*Shot or lead *35 lb. shot*Bottom *dk gy. s. brk. sh.*Bottom temperature *60.1*No. of thermometer *10819* Cor. *0.4*Corrected temperature *59.7*Air *87* Surface *63* DriftTrawl or dredge *9 ft*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		W 1
		2800		
		2900		
		3000		
		3100		
		3200		W
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11 1023

REMARKS:

No. 2488 Date 8 Aug 06  
 Machine. Reel. 8  
 Turns Cor.+ Depth 71 f  
 Shot or lead  
 Bottom  
 Bottom temperature 26  
 No. of thermometer 1 Cor.  
 Corrected temperature  
 Air 87 Surface 83 Drift  
 Trawl or dredge 9 ft 1 ft

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *2011*Date *Aug 1901*Machine. *Lucy*Reel *1*

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *83°*Surface *82°*

Drift

Trawl or dredge

*No 2-3 towing and surface*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100	<i>8-01-20</i>	<i>8-02-10</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700	<i>Offind</i>	
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400	<i>Clearing, Homa Zoki,</i>	
		3500	<i>71. 64° E (tr), 70.5 mi</i>	
		3600		
		3700	<i>Chart: H.O. 1302.</i>	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *1111* Date *9 Aug. 1906.*  
*Lucas* Machine. Reel. *Lucas*  
 Turns Cor.+ Depth *135 fms*  
 Shot or lead *35-lb & S.S. Cup.*  
 Bottom *rk.*  
 Bottom temperature *52.6°*  
 No. of thermometer *108010*. Cor. *-0.3'*  
 Corrected temperature *52.3°*  
 Air *80°* Surface *82°* Drift  
 Trawl or dredge *9' Agassiz*

Am. SOUNDING WIRE.		TURNS.	Am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.48.40</i>	<i>7.51.05</i>	0	<i>8.21.00</i>	<i>8.21.00</i>
<i>49.50</i>	<i>51.30</i>	100	<i>8.21.00</i>	<i>8.21.00</i>
<i>7.50.20</i>	<i>7.51.05</i>	<i>135.</i> 200	<i>8.21.00</i>	<i>8.21.00</i>
		300	<i>8.21.00</i>	<i>8.21.00</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000	<i>gisting 3 and less. Heaved out a pitman or two under the strain then commenced heaving.</i>	
		1100		
		1200		
		1300		
		1400		
		1500	<i>One tride carried away, and not badly.</i>	
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>U. I.</i>	<i>75.2</i>
		2600	<i>Weather</i>	<i>62.3</i>
		2700	<i>Wind</i>	<i>NE. 3</i>
		2800	<i>Sea</i>	<i>S.</i>
		2900	<i>Bar.</i>	<i>29.75</i>
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Lucas Machine. Reel. Lucin

Depth 181. fms

Shot or lead 35-ff and S. S. Cups

Bottom 55.5 (x)

Bottom temperature 50.5°

No. of thermometer 108019. Cor. - 0.3

Corrected temperature 50.7°

*Air* 82° *Surface* 81° *Drift*

Trawl or dredge 8 Taniguchi Swabs

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
0.45.00	0.42.00	0	0.45.00	10.25.00
45.55	48.35	100	0.50.00	10.30.00
0.47.00	9.47.50	200	0.55.00	10.35.00
		300	0.58.10	10.40.00
		400	10.00.00	10.45.00
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		bc. 3
		2600		Ewt. 4.
		2700		S.
		2800		82°
		2900		
		3000		H.O. 1302.
		3100		PSC North.
		3200		32° 27' N.
		3300		178° 00' E.
		3400		Ose Saki Lt. N 8° E
		3500		(Lt.), dist. 10.5 miles.
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4892*. Date *9 Aug. 1906*.

Machine. Reel.

Turns Cor.+ Depth *181 m*

Shot or lead

Bottom *No Sdg.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *83°* Surface *81°* DriftTrawl or dredge *9' Agassiz (new net)*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>10.52.00</i>	<i>11.02.00</i>
		100	<i>10.52.15</i>	<i>11.02.15</i>
		200	<i>10.52.30</i>	<i>11.02.30</i>
		300	<i>10.52.45</i>	<i>11.02.45</i>
		400	<i>10.53.00</i>	<i>11.03.00</i>
		500		
		600	<i>at 10.55 - vessel out</i>	
		700	<i>to 275 fms. -</i>	
		800	<i>Towing forward</i>	
		900	<i>10.57.10 - 11.03.00</i>	
		1000	<i>= 12 min.</i>	
		1100		
		1200	<i>At 11:03 accumulator</i>	
		1300	<i>suddenly registered</i>	
		1400	<i>2 1/4 and commenced</i>	
		1500	<i>to heave in.</i>	
		1600	<i>Net came up towed</i>	
		1700	<i>Some specimens lost</i>	
		1800	<i>at water's edge; some</i>	
		1900	<i>remaining in torn net.</i>	
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>Ther. att'd</i>	<i>ke. 6.</i>
		2600		<i>Enot. 4.</i>
		2700		<i>c.</i>
		2800		<i>29.75</i>
		2900	<i>Ther. att'd</i>	<i>82°</i>
		3000	<i>Chart</i>	<i>H.O. 1302.</i>
		3100	<i>Course PSC.</i>	<i>North.</i>
		3200	<i>Lat. 32° 27' 30" N.</i>	
		3300	<i>Long. 128° 33' E.</i>	
		3400	<i>Ose Saki Lt. N. 15° E.</i>	
		3500	<i>En. dist. 9.5 miles</i>	
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 0.4893. Date 9 Aug. 1906.

Machine. Reel.

Turns Cor.+ Depth 101 fms.

Shot or lead 35 lb v. Lead C

Bottom gy. S brn. Sh F

Bottom temperature 56.2

No. of thermometer 108019 Cor. - 0.3

Corrected temperature 55.9

Air 02 Surface 83 Drift

Trawl or dredge X Lange Chumbe

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.4.15	2.15	0		
	2.20	100		
1.5.15	2.15	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	
		2600	<i>Weather</i>	<i>bc 5</i>
		2700	<i>Wind</i>	<i>E S E 4.</i>
		2800	<i>Sea</i>	
		2900	<i>Ree</i>	
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *21* Date \_\_\_\_\_  
*TN* Machine. Reel. *T1*  
 Turns *93* Cor. + *35* Depth *95 fm*  
 Shot or lead *35 lb lead*  
 Bottom *gn. S. bl. sh.*  
 Bottom temperature *76* *1200*  
 No. of thermometer \_\_\_\_\_ Cor. \_\_\_\_\_  
 Corrected temperature \_\_\_\_\_  
 Air *82* Surface *83* Drift \_\_\_\_\_  
 Trawl or dredge *Sample*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4895-*Date *Aug. 9, 1906*

Machine.

Reel.

Turns

Cor. +

Depth *Est. 95 fms*Shot or lead *70*

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *83°* Surface *83°* DriftTrawl or dredge *8 Tangle Swabs.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN, <i>P.M.</i>	UP.
<i>After taking haul, let out 300 fath. dredging wire with "60" sounding shot and cut same off.</i>		0	<i>4-15-00</i>	<i>4-47-10</i>
		100	<i>17-55</i>	<i>43-15</i>
		200	<i>4-20-30</i>	<i>4-40-30</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Weather	bc 6
		2600	Wind	N.E. 3
		2700		
		2800	Bar.	29.70
		2900		29
		3000	Therm. Vests	
		3100	Chart	BA 359
		3200	Lat.	32° 53' 15" N
		3300	Long.	72° 32' 15" W
		3400	Bearing	Use L.
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

507  
No.

' Machine.

*Reel.*

Turns

*Cor. +*

Depth

Depth  
Surface  
Cor.

Surface

Cor. *1000*

Cor.

Cor. *W. L.*

*Air*

### Surface

820

Drift

Trawl or dredge

Inter 4/

2

不

X

2. Towed by tow.  
The 1st. engine  
from each line  
from the 1st. to  
fords towing either  
on separate line



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Weather	Temp. -
		2600	Wind	NNE 4.
		2700	Sea	S.
		2800	Sea	S.
		2900	Sea	S.
		3000	Sea	S.
		3100	Sea	S.
		3200	Sea	S.
		3300	Sea	S.
		3400	Sea	S.
		3500	Surveys; use data 21	
		3600	748° E (15)	6.8 mi.
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 417 Date 10 Feb

Machine. Reel.

Turns Cor. + Depth

Shot or lead 35 lb. 100 lb.

Bottom gy. S. bk. SK. Fr.

Bottom temperature 51

No. of thermometer 108019 Cor. - 0.3

Corrected temperature 49.7°

Air 62 Surface 62 Drift

Trawl or dredge 1 Dit 2. R. #2 &amp; #3.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4897 Date '0 18

Machine. Reel.

Turns Cor.+ Depth 207

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	1	0L
		100		10 0'
		200	21 30	18
		300		
		400	21 30	
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *74899* Date \_\_\_\_\_  
 Machine. Reel.  
 Turns Cor.+ Depth *207 fath.*  
 Shot or lead  
 Bottom  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air Surface Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		





No. *11. 4900* Date *Dec. 10/0*  
*Lucas* Machine. Reel. *Lucas*  
 Turns Cor.+ Depth *137*  
 Shot or lead *35<sup>4</sup> & L*  
 Bottom  
 Bottom temperature *53.2°*  
 No. of thermometer *108019* Cor. - *3'*  
 Corrected temperature *52.9*  
 Air *52.0* Surface *52.0* Drift  
 Trawl or dredge *8 /*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1024

REMARKS:

No. *D. 4901* Date *Aug. 10/0*

Machine. Reel.

Turns Cor.+ Depth *139 m.*

Shot or lead

Bottom

Bottom temperature

No. of thermometer *( )* Cor. *( )*

Corrected temperature

Air *88°* Surface *82°* DriftTrawl or dredge *8'*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. <i>1 1/2 1/2</i>	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



No. 1) 4902 Date (1)

Machine. Reel.

Turns — Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 88° Surface 82° Drift

Trawl or dredge 8 14

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3* Date *Aug 10/0*

Machine. Reel.

Turns/ Cor. +

Depth *Est. 139 fath.*Shot or lead *—*Bottom *—*

Bottom temperature

No. of thermometer *3* Cor.Corrected temperature *—*Air *82°* Surface *82.5°* DriftTrawl or dredge *8'*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		<i>6. 22. 50</i>
		100		<i>12. 50</i>
		200		<i>1. 16. 30</i>
		300		
		400		<i>50 min.</i>
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		<i>1. 1. 1.</i>
		2600		<i>. 7' 1. 2.</i>
		2700		
		2800		<i>12. 1. 1.</i>
		2900		<i>11. 1. 1.</i>
		3000		<i>12. 1. 1.</i>
		3100		<i>13. 1. 1.</i>
		3200		<i>12. 1. 1.</i>
		3300		<i>128° 33' 20" E.</i>
		3400		<i>1. 1. 1.</i>
		3500	<i>Lat. N. 22° E (true), Dist.</i>	
		3600	<i>90 miles.</i>	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4904*. Date *10 Aug. 1906*.  
*T.N.* Machine. Reel.  
 Turns *110* Cor. *2* Depth *107 fms.*  
 Shot or lead *TN Shank*  
 Bottom *fine gy. S. bk. Sh.*  
 Bottom temperature  
 No. of thermometer *—* Cor.  
 Corrected temperature  
 Air *82°* Surface *82°* Drift  
 Trawl or dredge *8' A. - B.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4:28.15</i>	<i>4:32.15</i>	0	<i>4:28.15</i>	<i>4:32.15</i>
<i>4:28.30</i>	<i>4:32.30</i>	100	<i>4:28.30</i>	<i>4:32.30</i>
		200	<i>4:28.45</i>	<i>4:32.45</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	<i>Weather</i>	
		2700	<i>Wind</i>	
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D.4905* Date *11 Aug. 1906.*Machine. Reel. *Lucas*  
Turns Cor.+ Depth *369 fms.*Shot or lead *35# Dig Cup*Bottom *No Spec.*Bottom temperature *43.6*No. of thermometer *108014* Cor. *-0.9*Corrected temperature *43.4*Air *84* Surface *83* DriftTrawl or dredge *8 ft. 12 ft. 12 ft.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
	<i>53 10</i>	0		<i>51</i>
	<i>52 20</i>	100		<i>50</i>
	<i>51 35</i>	200	<i>49 25</i>	<i>49</i>
	<i>50 45</i>	300	<i>48 30</i>	<i>48</i>
	<i>50 00</i>	400	<i>47 35</i>	<i>47</i>
		500	<i>46 40</i>	<i>46</i>
		600	<i>45 45</i>	<i>45</i>
		700	<i>44 50</i>	<i>44</i>
		800	<i>43 55</i>	<i>43</i>
		900	<i>42 55</i>	<i>42</i>
		1000	<i>41 55</i>	<i>41</i>
		1100	<i>40 55</i>	<i>40</i>
		1200	<i>39 55</i>	<i>39</i>
		1300	<i>38 55</i>	<i>38</i>
		1400	<i>37 55</i>	<i>37</i>
		1500	<i>36 55</i>	<i>36</i>
		1600	<i>35 55</i>	<i>35</i>
		1700	<i>34 55</i>	<i>34</i>
		1800	<i>33 55</i>	<i>33</i>
		1900	<i>32 55</i>	<i>32</i>
		2000	<i>31 55</i>	<i>31</i>
		2100	<i>30 55</i>	<i>30</i>
		2200	<i>29 55</i>	<i>29</i>
		2300	<i>28 55</i>	<i>28</i>
		2400	<i>27 55</i>	<i>27</i>

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		31° 39' N
		3400		129° 19' E
		3500		Wake Rock
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4406*. Date *11 Aug. 06.*

Machine. Reel.

Turns Cor. +

Depth *369* \*

Shot or lead

Bottom *No. D. d.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

*330*

Drift

Trawl or dredge *12' Tanner*.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500	<i>18</i>	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *14907* Date *11 Aug 06*  
*Lucas* Machine. Reel. *Lucas*  
 Turns Cor.+ Depth *406*  
 Shot or lead *35 lbs. Agate Cup*  
 Bottom *gy. glob. oz.*  
 Bottom temperature *42.8*  
 No. of thermometer *108019* Cor. *-0.2*  
 Corrected temperature *42.6*  
 Air *83* Surface *83* Drift  
 Trawl or dredge *12 ft Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10 11 25</i>	<i>20 30</i>	0	<i>10 28 30</i>	<i>37 00</i>
<i>12 20</i>	<i>19 30</i>	100	<i>31 50</i>	<i>34 00</i>
<i>13 20</i>	<i>18 30</i>	200	<i>34 50</i>	<i>31 00</i>
<i>14 25</i>	<i>17 30</i>	300	<i>37 50</i>	<i>28 00</i>
<i>15 30</i>	<i>16 30</i>	400	<i>41 00</i>	<i>24 50</i>
<i>15 35</i>	<i>16 25</i>	<i>406</i>	<i>44 20</i>	<i>21 35</i>
		600	<i>47 35</i>	<i>18 10</i>
		700	<i>51 10</i>	<i>15 00</i>
		<i>780</i>	<i>52 50</i>	<i>11 13.10</i>
		900		
		1000		
		1100	<i>Lowered 20 m</i>	
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	
		2600	<i>Weather</i>	<i>Temp 79</i>
		2700	<i>Wind</i>	<i>Variable</i>
		2800	<i>Sea</i>	<i>S</i>
		2900	<i>Bar</i>	<i>29.72</i>
		3000	<i>Throat</i>	<i>84</i>
		3100	<i>Cause</i>	<i>E 1/5 - <del>SE</del></i>
		3200	<i>Chart</i>	<i>No. 1302</i>
		3300	<i>Lat</i>	<i>31° 29' 30" N</i>
		3400	<i>Long</i>	<i>129° 24' E.</i>
		3500		
		3600	<i>Bearings</i>	<i>Tsurikake</i>
		3700	<i>Saki Light</i>	
		3800	<i>S. 83° E (true)</i>	<i>14.7 mi.</i>
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

80-79  
100-98

100  
50  
25  
10  
5  
5  
7

63.60  
52.0  

---

1050

4-55

104914